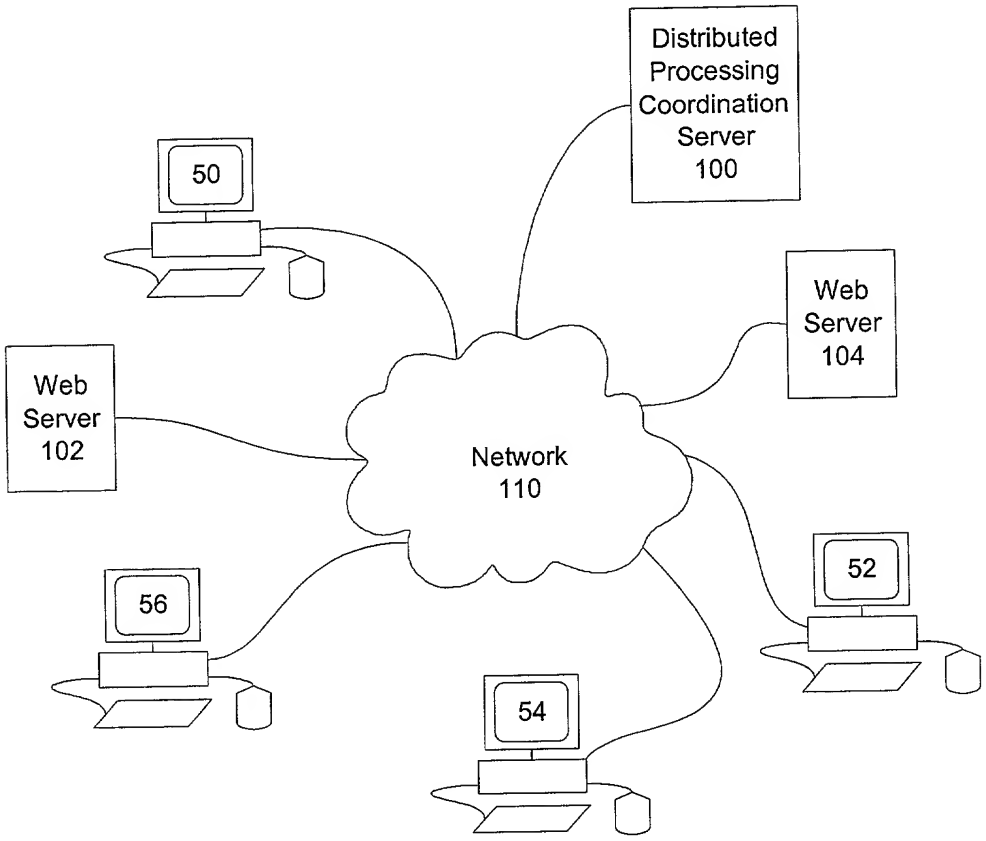
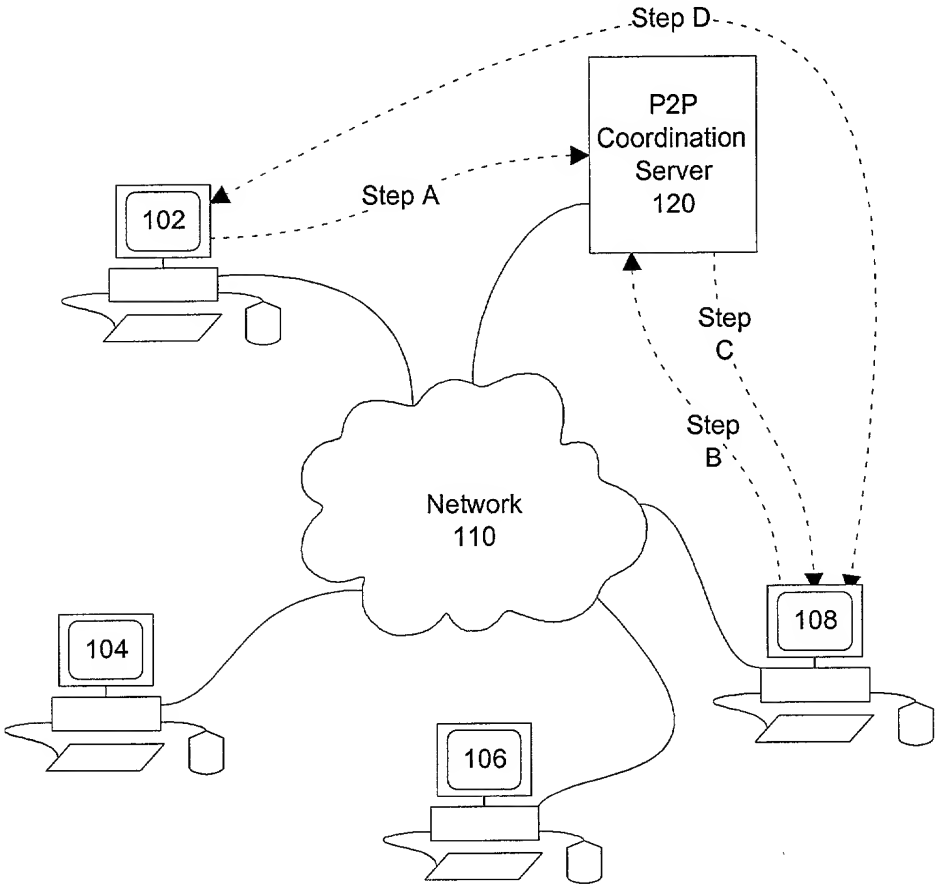


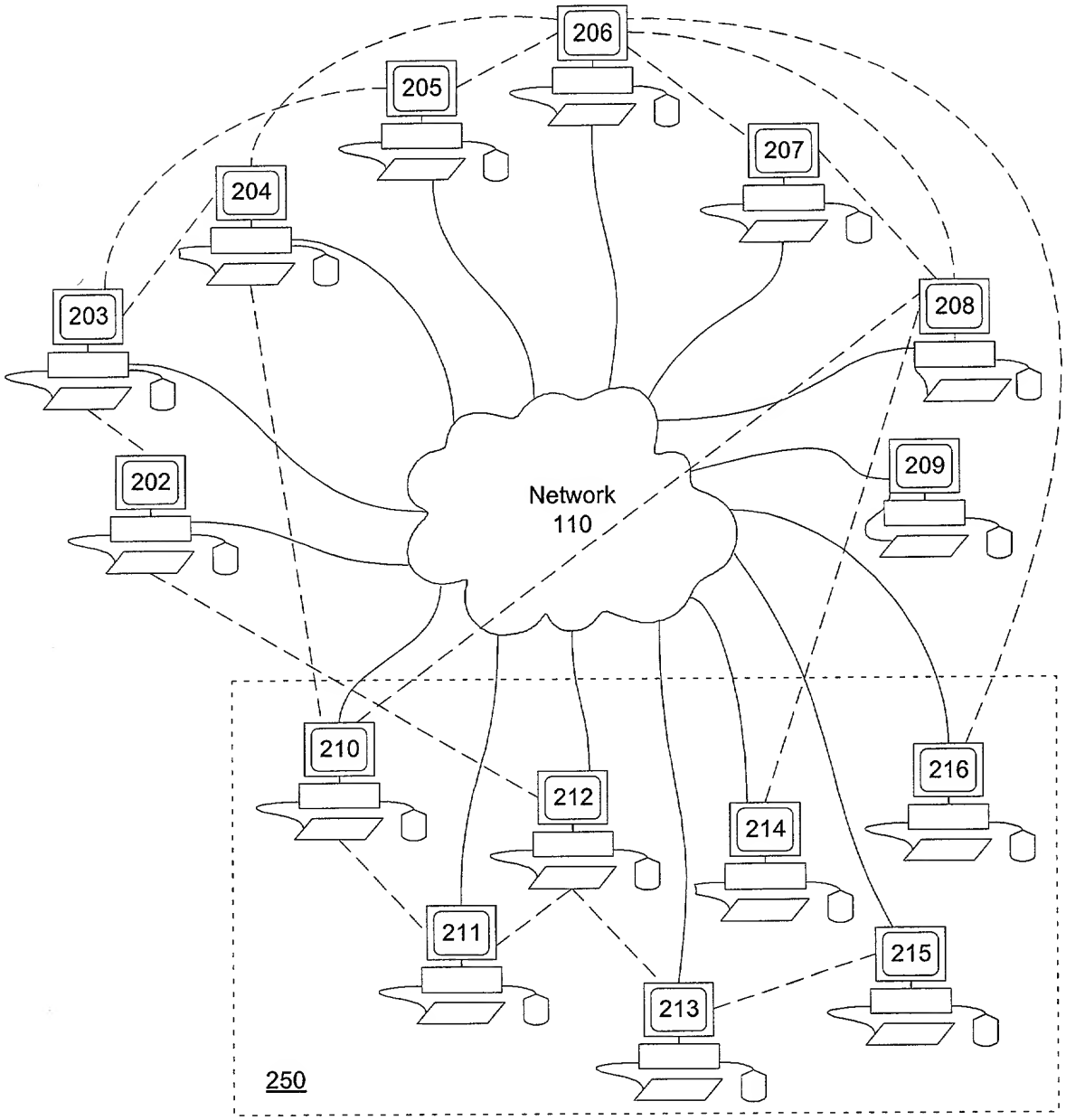
Attribute Bounded Distributed Processing

FIG. 1



Attribute Bounded Peer-To-Peer with Server Coordination

FIG. 2



Attribute Bounded Peer-To-Peer Without Server Coordination

FIG. 3

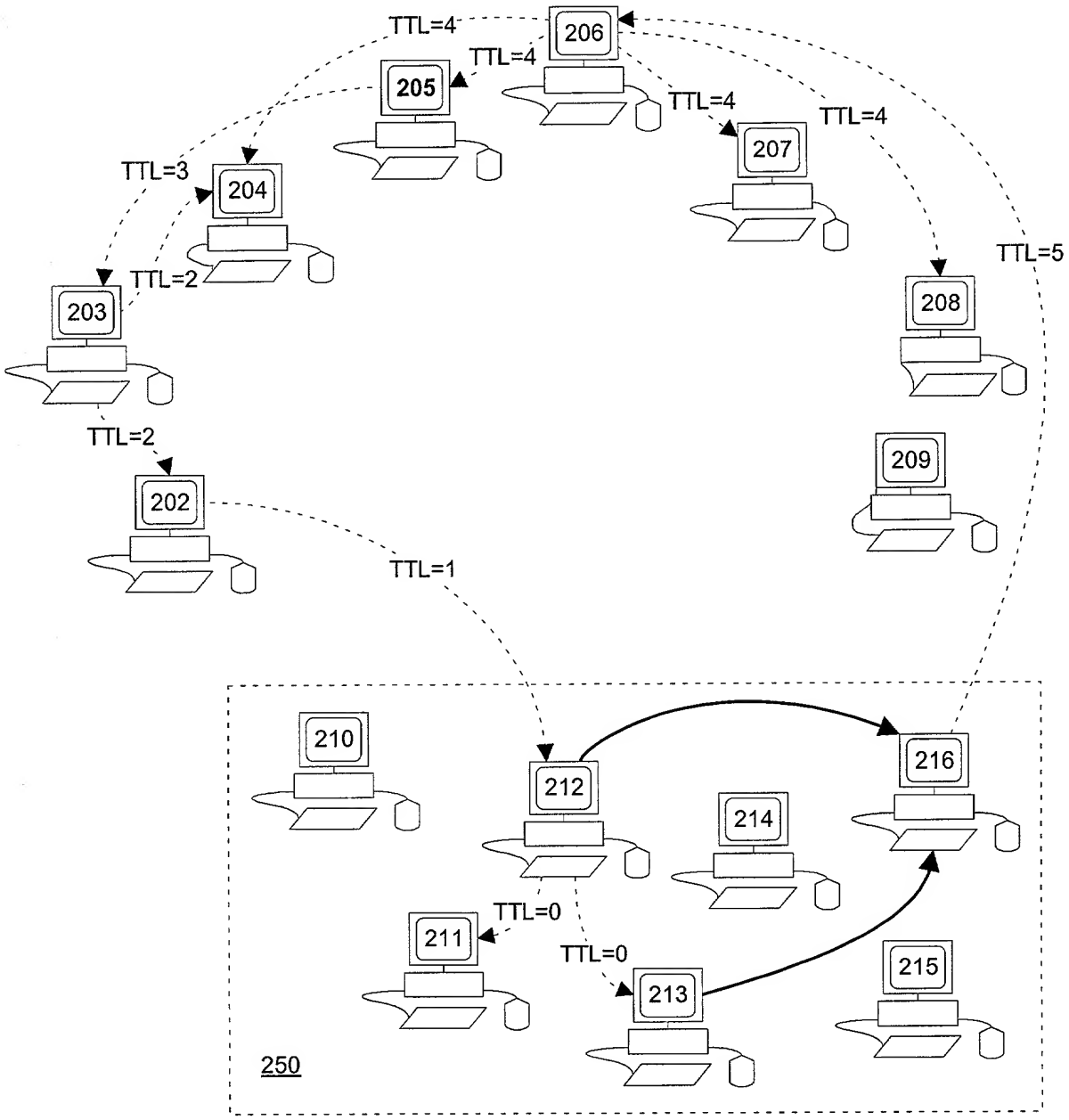

TTL=4
206
TTL=4
205
TTL=4
TTL=4
207
TTL=3
204
TTL=5
TTL=2
208
203
TTL=2
209
202
TTL=1
210
212
216
214
TTL=0
211
TTL=0
213
215
250

FIG. 4

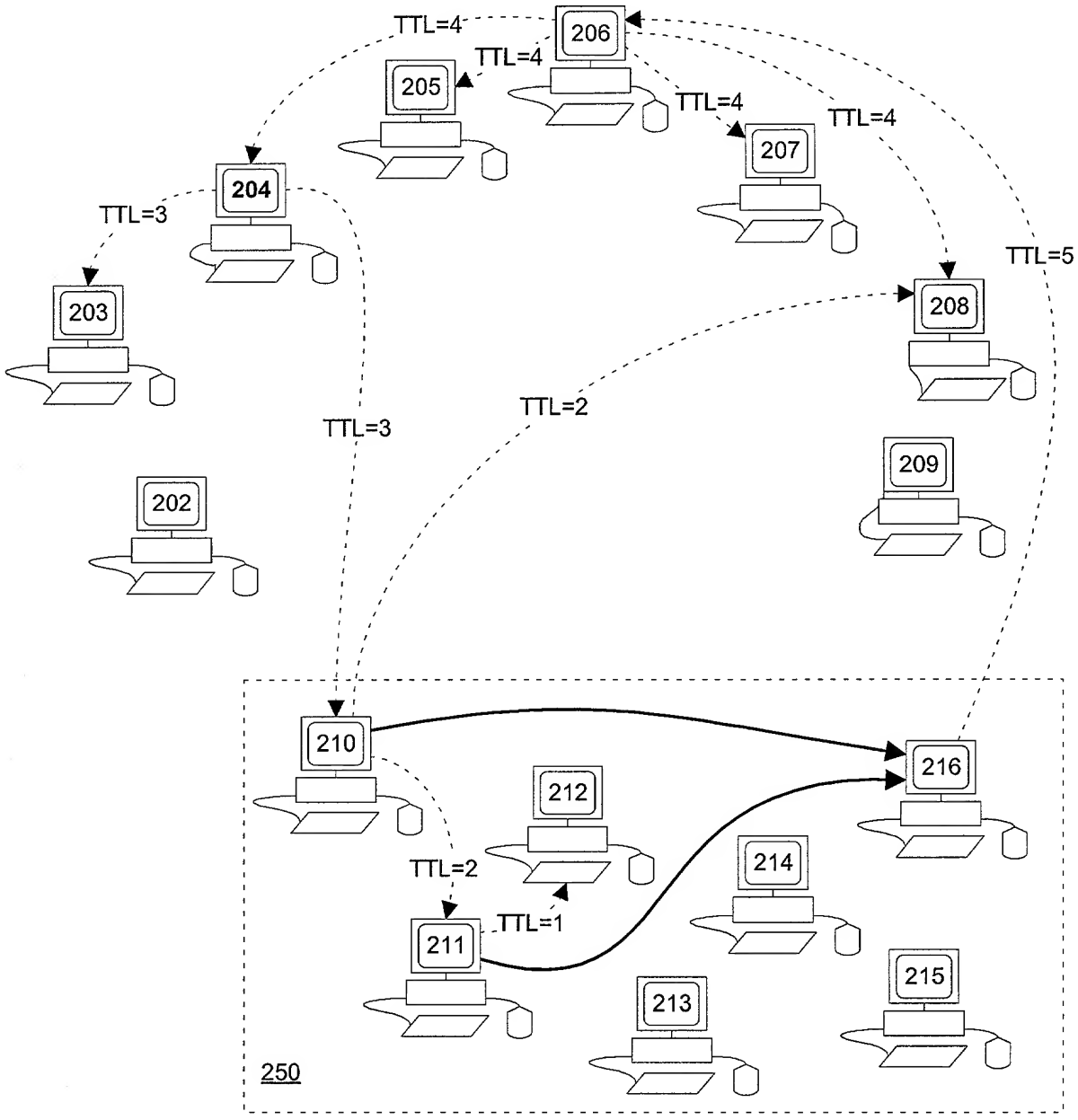

TTL=4
206
TTL=4
205
TTL=4
207
TTL=4
204
TTL=3
203
TTL=5
208
TTL=2
TTL=3
209
202
210
216
212
TTL=2
214
TTL=1
211
215
213
250

FIG. 5

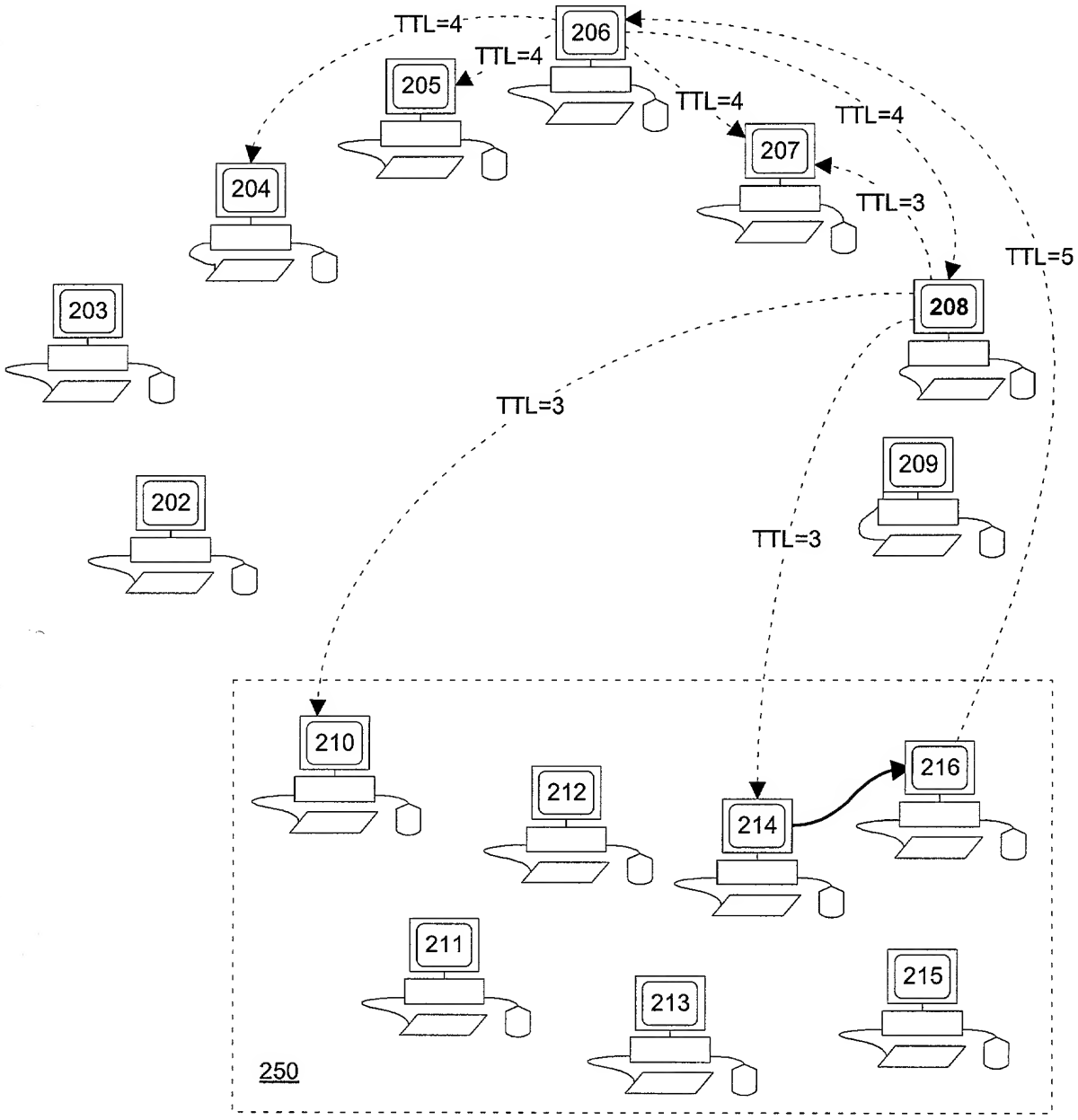

TTL=4
206
TTL=4
205
TTL=4
TTL=4
207
204
TTL=3
TTL=5
203
208
TTL=3
209
202
TTL=3
210
212
214
216
211
213
215
250

FIG. 6

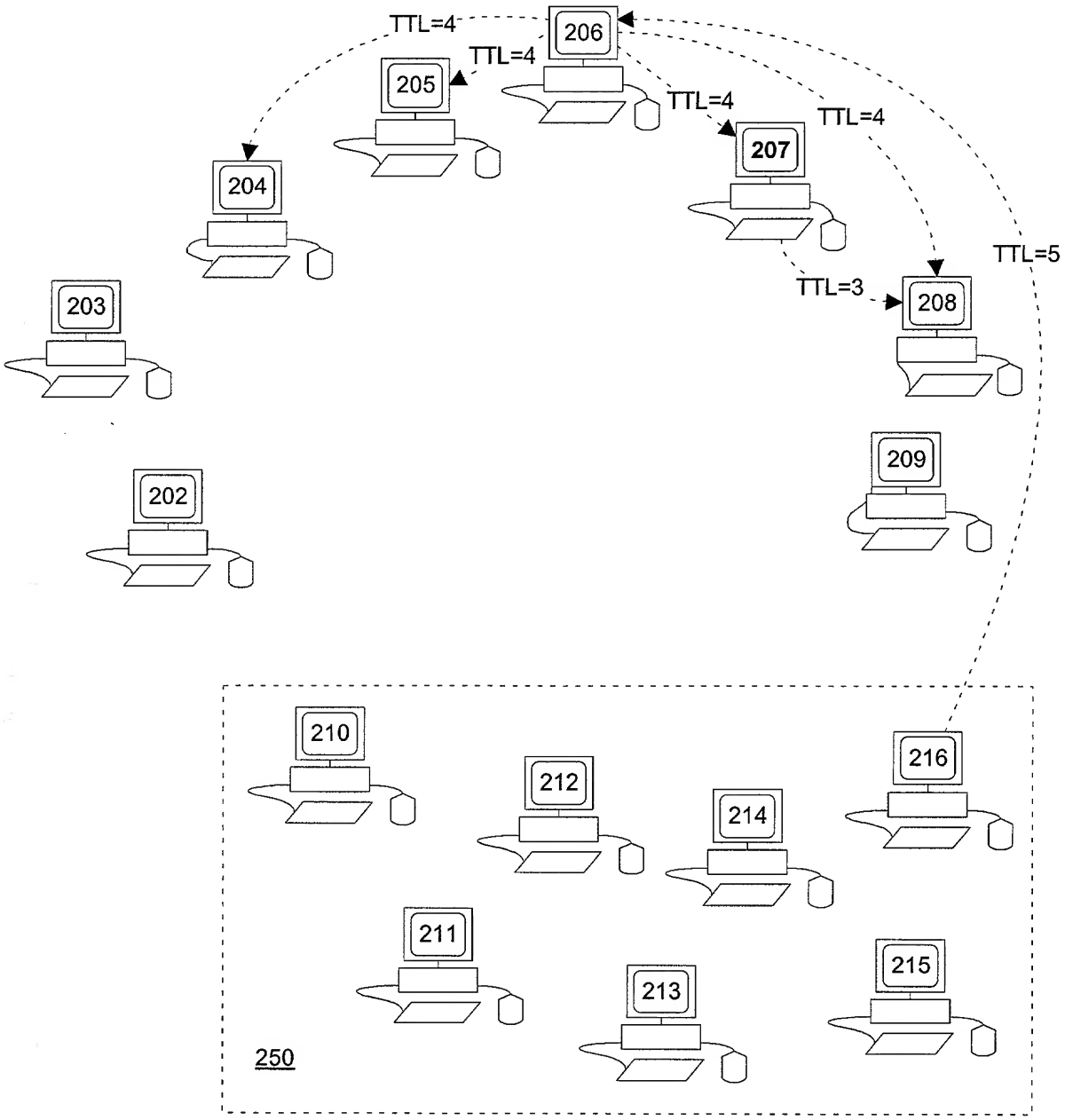

TTL=4
206
TTL=4
205
TTL=4
207
TTL=4
204
TTL=5
TTL=3
208
203
209
202
210
212
214
216
211
213
215
250

FIG. 7

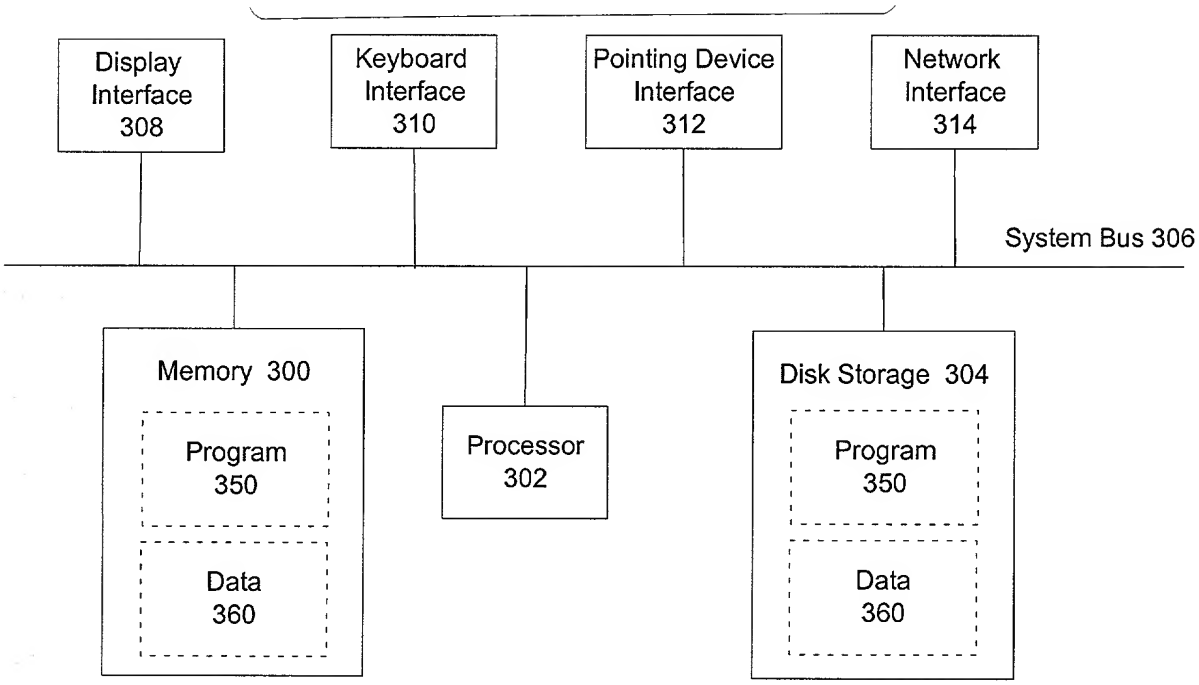

Display Interface 308
Keyboard Interface 310
Pointing Device Interface 312
Network Interface 314
System Bus 306
Memory 300
Program 350
Data 360
Processor 302
Disk Storage 304
Program 350
Data 360

FIG. 8

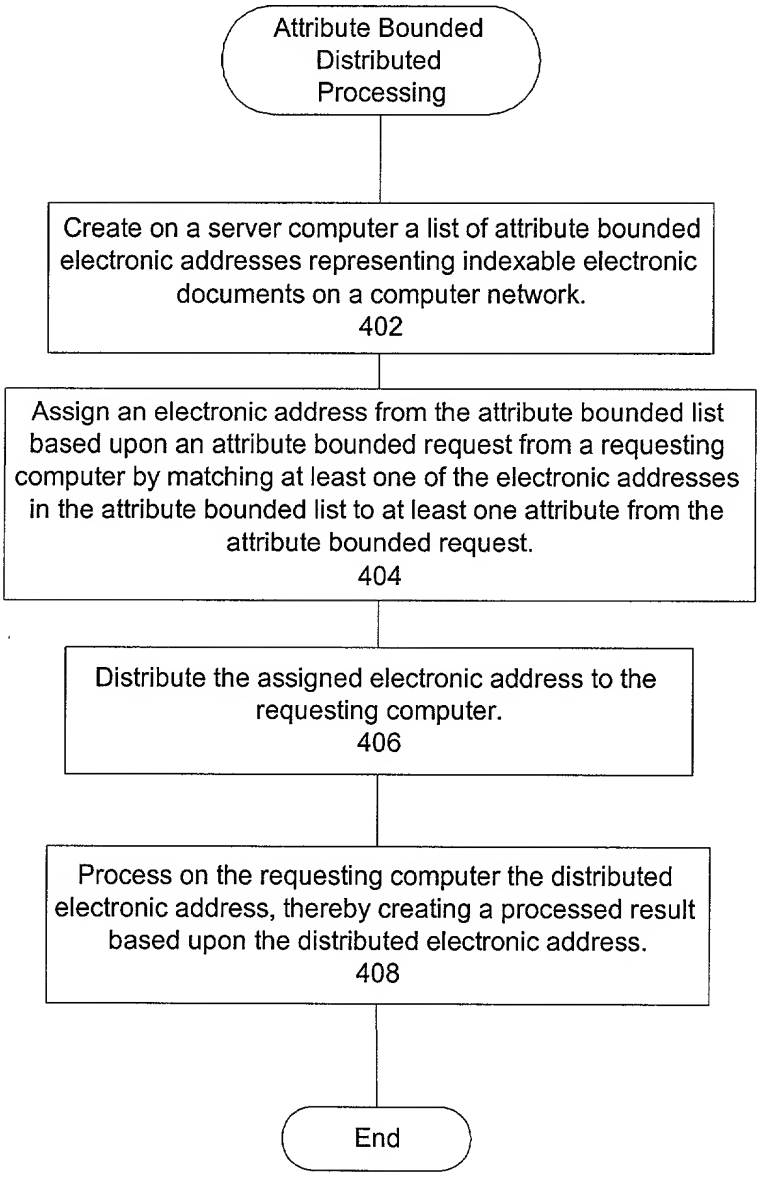

Attribute Bounded Distributed Processing
Create on a server computer a list of attribute bounded electronic addresses representing indexable electronic documents on a computer network.
402
Assign an electronic address from the attribute bounded list based upon an attribute bounded request from a requesting computer by matching at least one of the electronic addresses in the attribute bounded list to at least one attribute from the attribute bounded request.
404
Distribute the assigned electronic address to the requesting computer.
406
Process on the requesting computer the distributed electronic address, thereby creating a processed result based upon the distributed electronic address.
408
End

FIG. 9

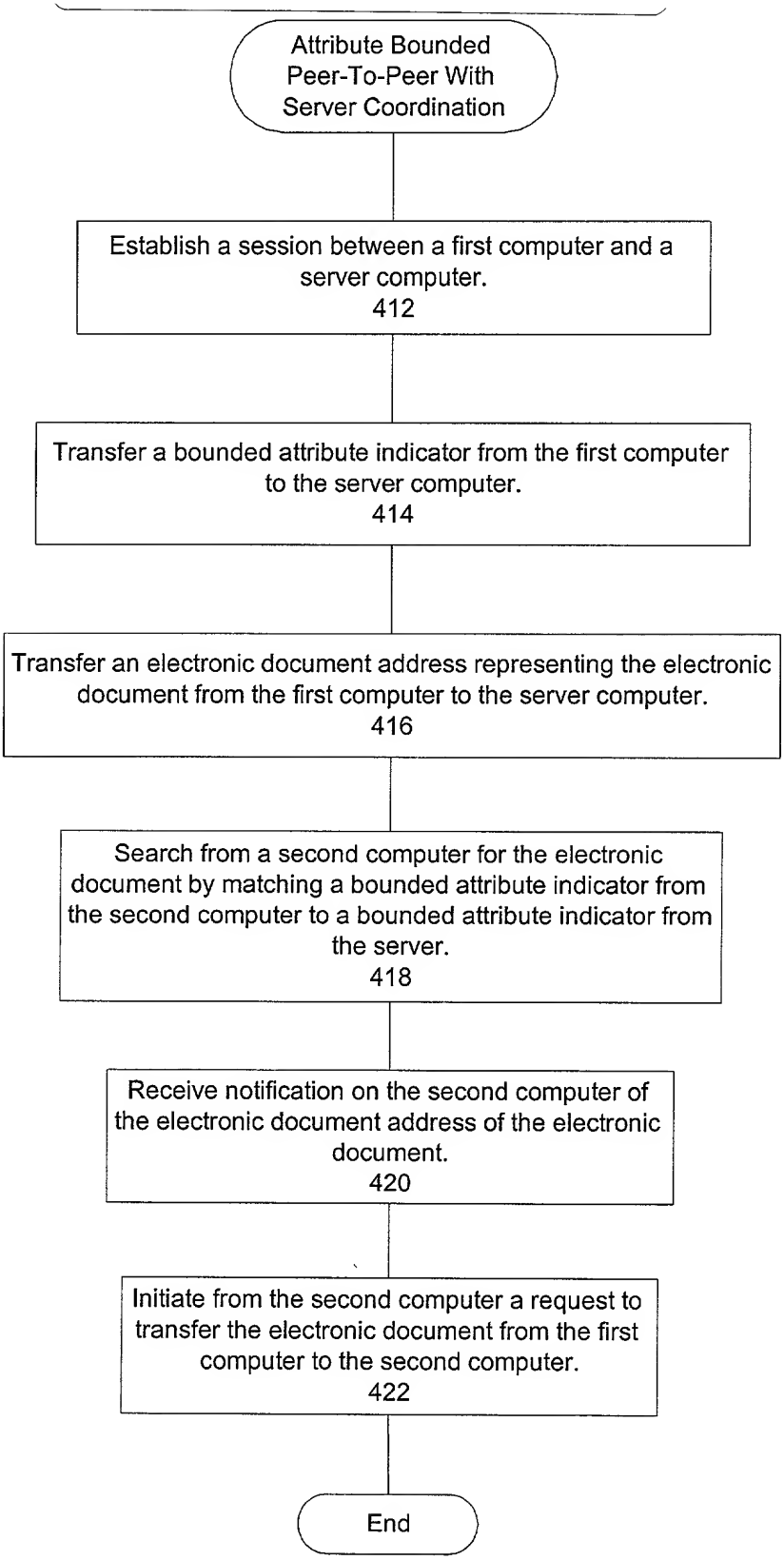

Attribute Bounded Peer-To-Peer With Server Coordination
Establish a session between a first computer and a server computer.
412
Transfer a bounded attribute indicator from the first computer to the server computer.
414
Transfer an electronic document address representing the electronic document from the first computer to the server computer.
416
Search from a second computer for the electronic document by matching a bounded attribute indicator from the second computer to a bounded attribute indicator from the server.
418
Receive notification on the second computer of the electronic document address of the electronic document.
420
Initiate from the second computer a request to transfer the electronic document from the first computer to the second computer.
422
End

FIG. 10

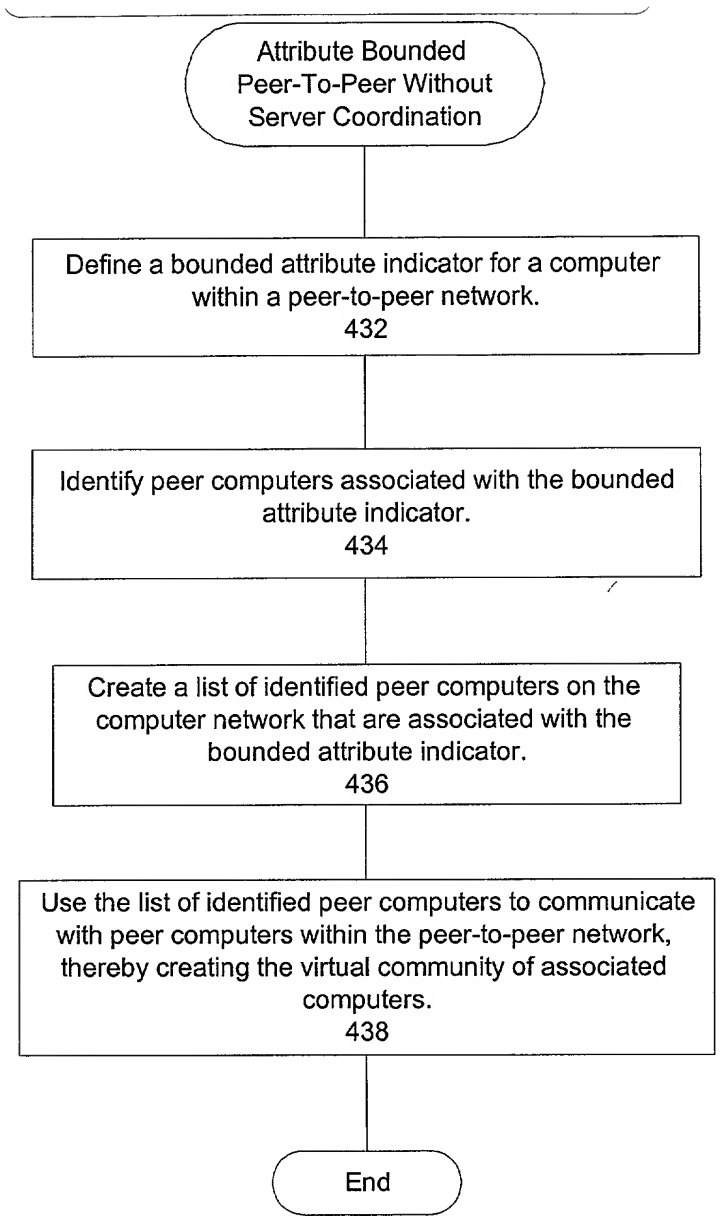

Attribute Bounded Peer-To-Peer Without Server Coordination
Define a bounded attribute indicator for a computer within a peer-to-peer network.
432
Identify peer computers associated with the bounded attribute indicator.
434
Create a list of identified peer computers on the computer network that are associated with the bounded attribute indicator.
436
Use the list of identified peer computers to communicate with peer computers within the peer-to-peer network, thereby creating the virtual community of associated computers.
438
End

FIG. 11

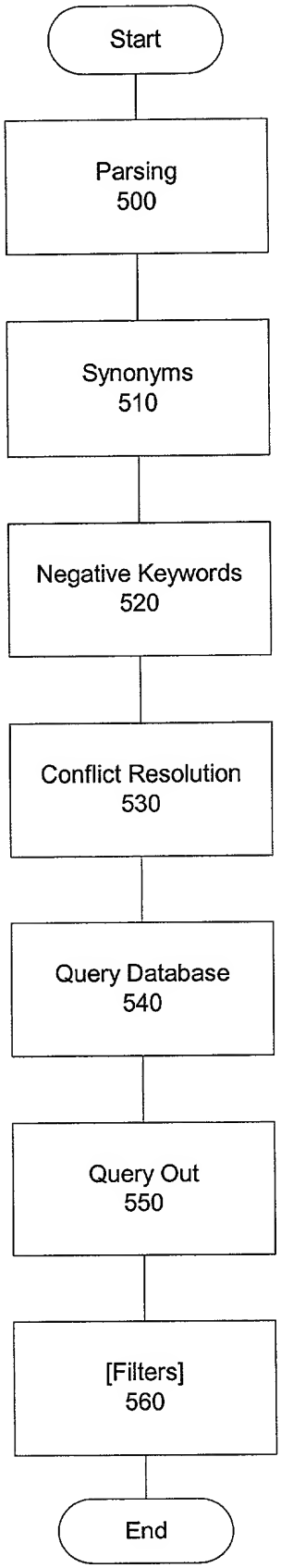

Start
Parsing
500
Synonyms
510
Negative Keywords
520
Conflict Resolution
530
Query Database
540
Query Out
550
[Filters]
560
End

FIG. 12

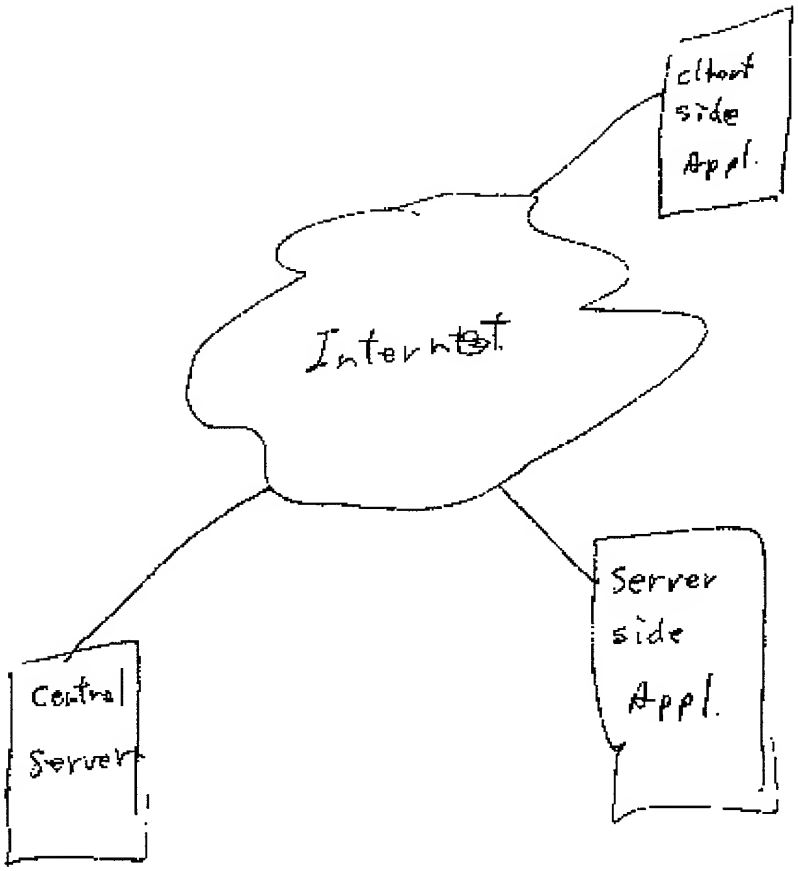


FIG. 13

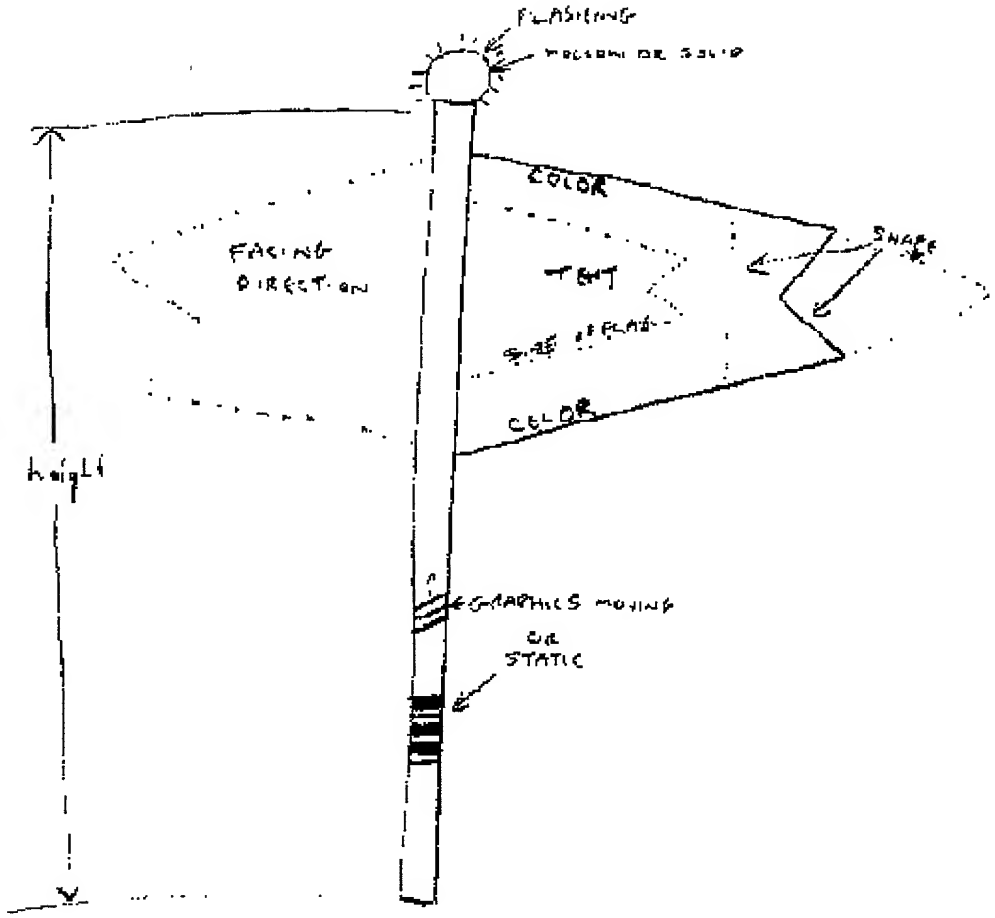

FLASHING
COLOR
FACING DIRECTION
TINT
SHAPE
COLOR
GRAPHICS MOVING
OR STATIC

FIG. 14

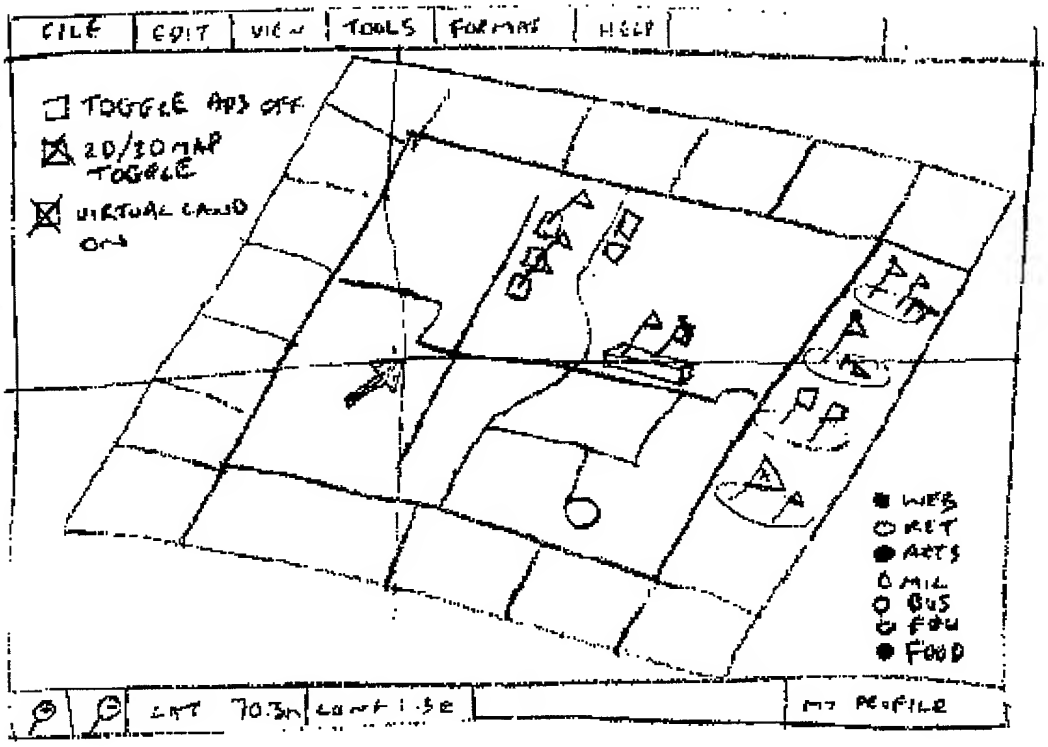

FILE
EDIT
VIEW
TOOLS
FORMATS
HELP
TOGGLE ADS OFF
2D/3D MAP TOGGLE
VIRTUAL CAMD ON
WEB
RET
ARTS
MIL
BUS
FOU
FOOD
MY PROFILE

FIG. 15

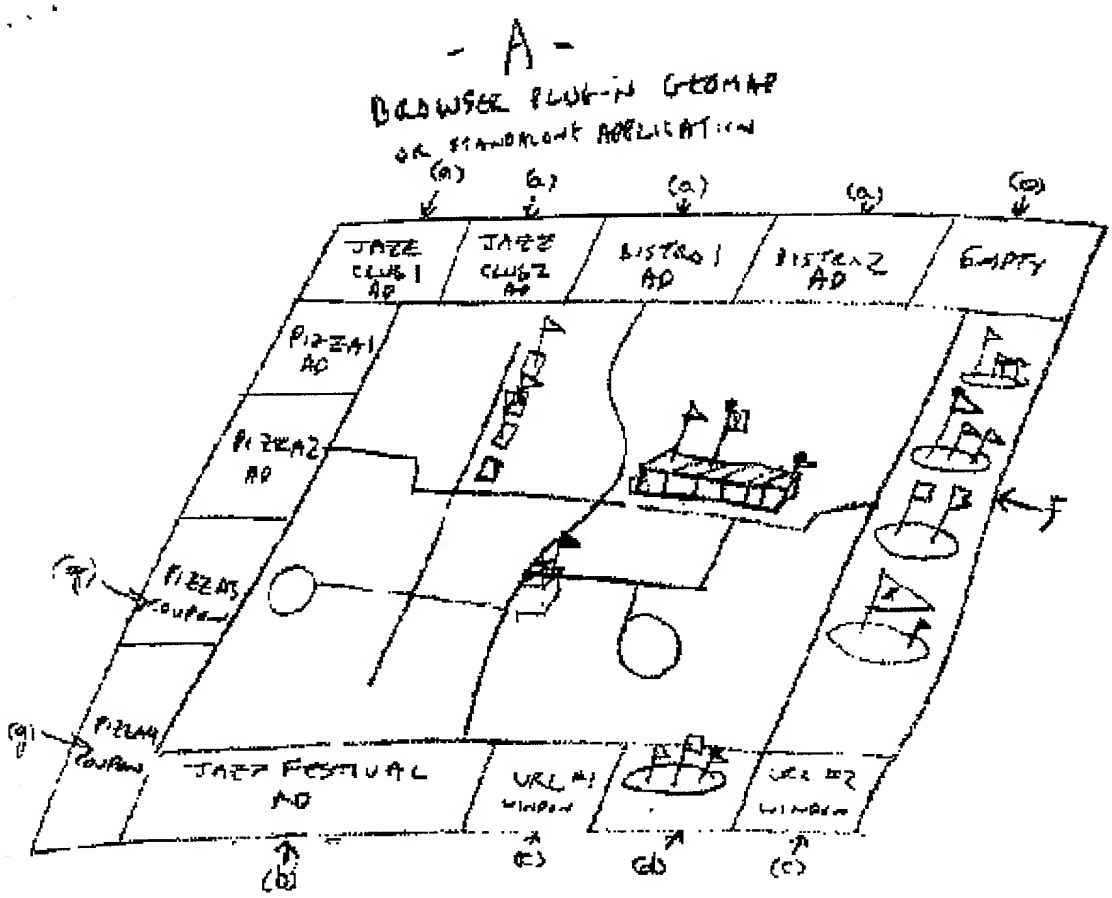

- A -
BROWSER PLUG-IN GEOMAP
OR STANDALONE APPLICATION
JAZZ CLUB 1 AD
JAZZ CLUB 2 AD
BISTRO 1 AD
BISTRO 2 AD
EMPTY
PIZZA 1 AD
PIZZA 2 AD
PIZZA 3 COUPON
PIZZA 4 COUPON
JAZZ FESTIVAL AD
URL #1 WINDOW
URL #2 WINDOW
(a)
(b)
(c)
(d)
(e)
(f)
(g)

FIG. 16

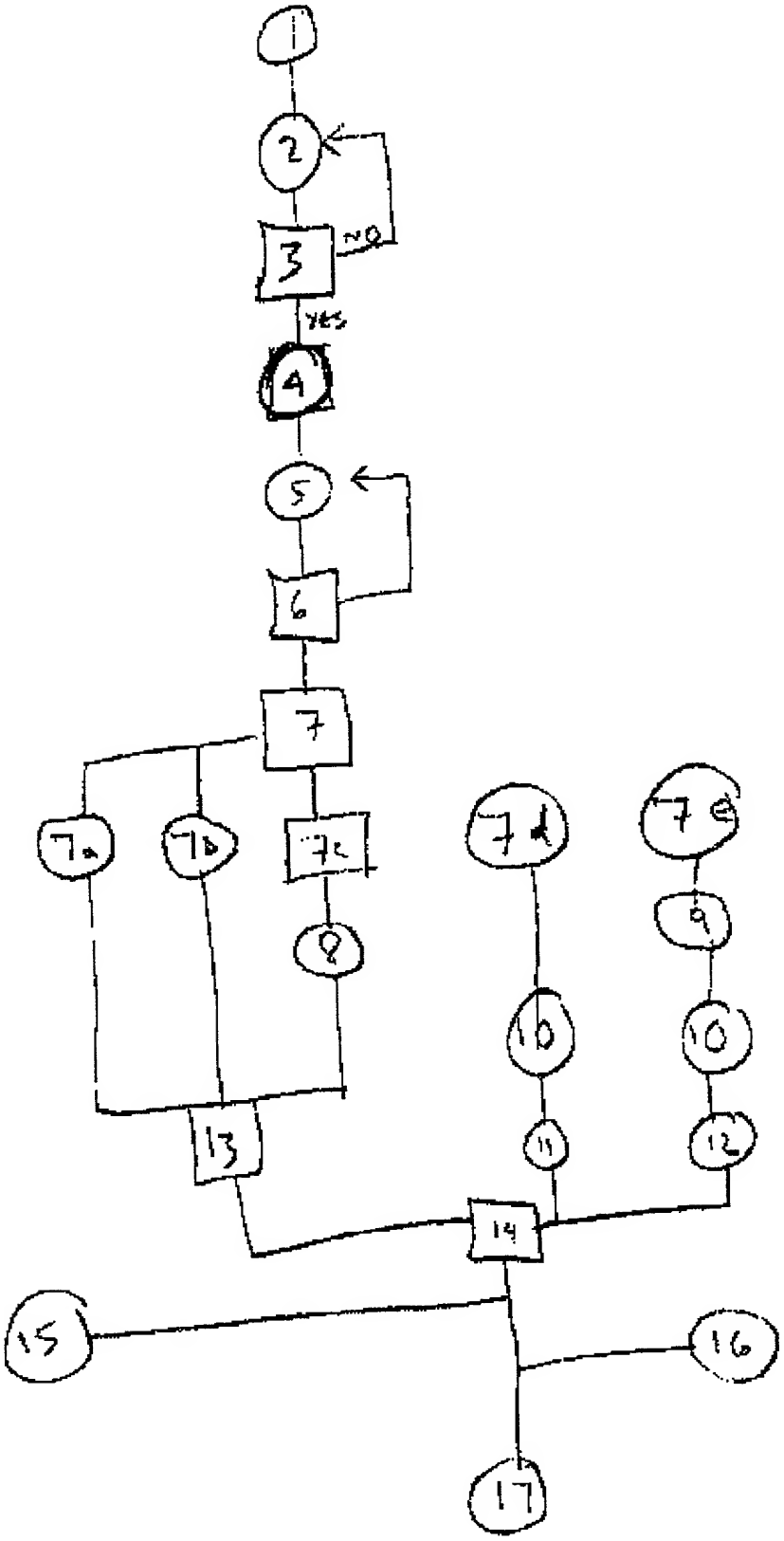


FIG. 17a

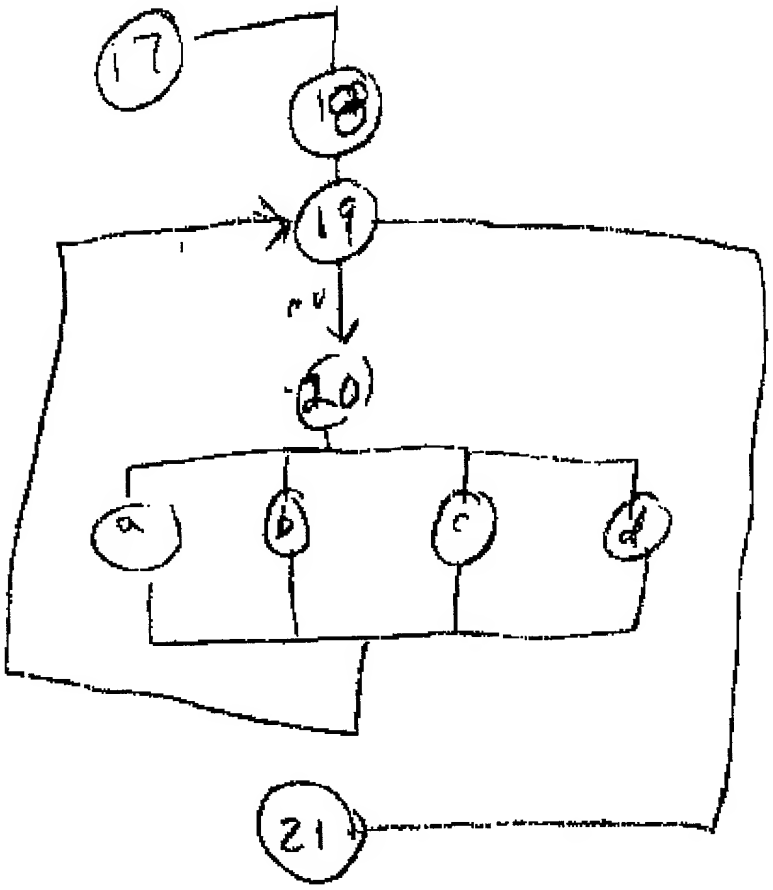
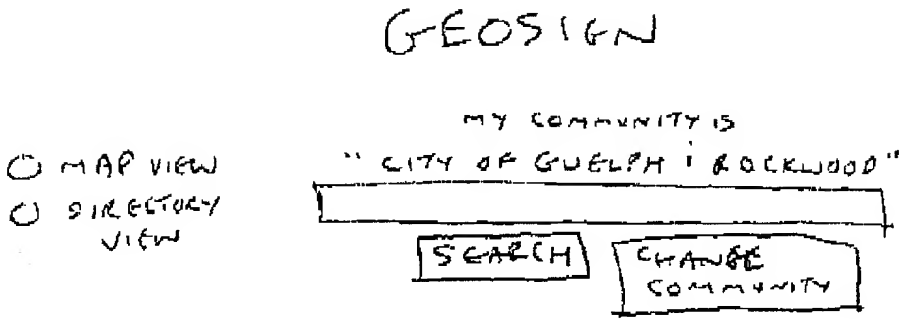


FIG. 17b


GEOSIGN
MY COMMUNITY IS
" CITY OF GUELPH : ROCKWOOD "
MAP VIEW
DIRECTORY VIEW
SEARCH
CHANGE COMMUNITY

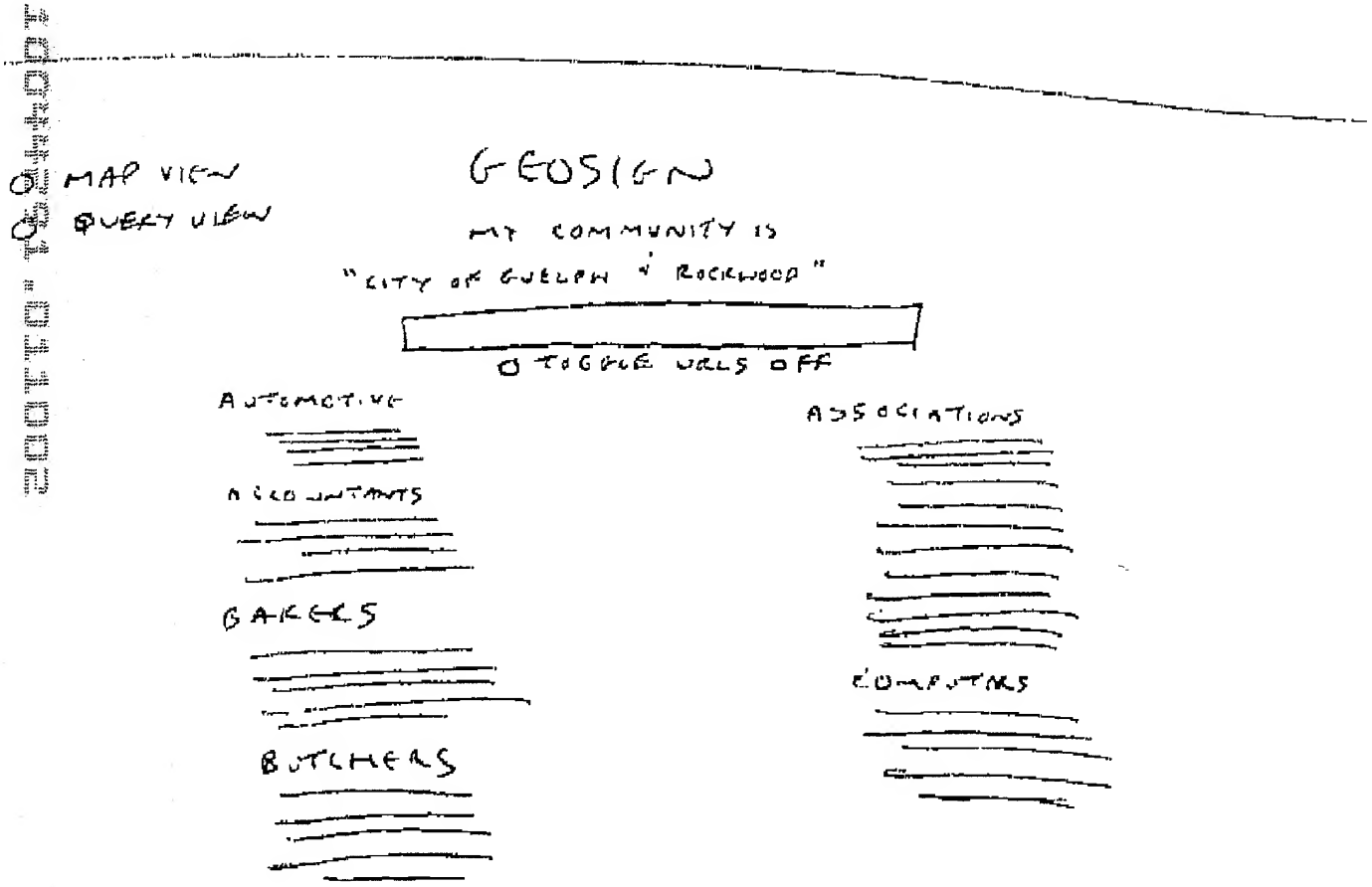

MAP VIEW
QUERY VIEW
GEOSIGN
MY COMMUNITY IS
" CITY OF GUELPH : ROCKWOOD "
TOGGLE URLS OFF
AUTOMOTIVE
ACCOUNTANTS
BAKERS
BUTCHERS
ASSOCIATIONS
COMPUTERS

FIG. 18

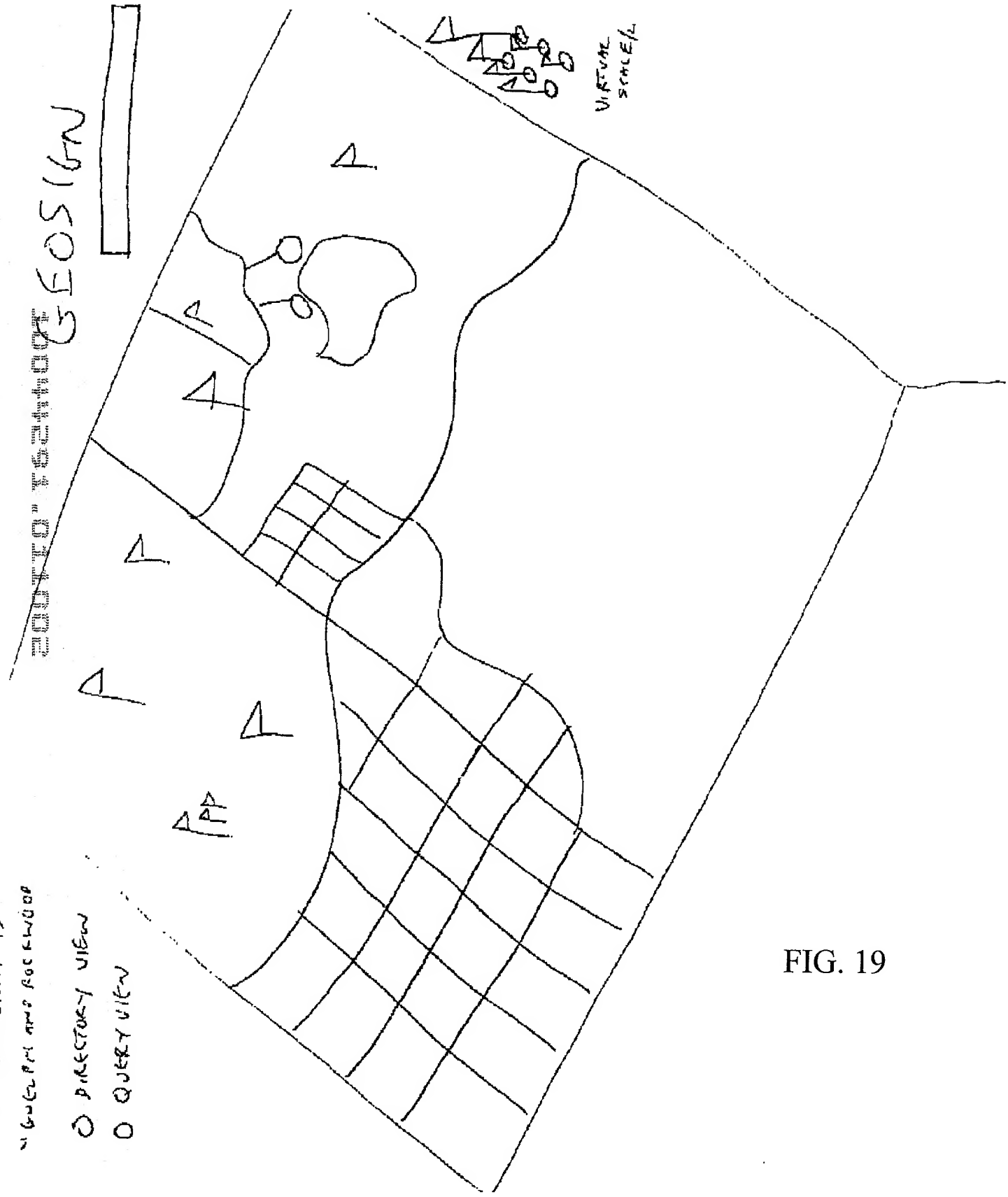

VIRTUAL SCALE/L
GEOSIGN
ADDITIONAL GEOSIGN
O DIRECTORY VIEW
O QUERY VIEW

FIG. 19